

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/30/01
Date Received: 08/09/01
Project: Metro Self Monitor PO# M66599
Date Extracted: 08/23/01
Date Analyzed: 08/24/01

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M66599 108054-01	0.47	0.45	0.61	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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Date of Report: 08/30/01

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 108120-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.83	0.83	0	0-20
Copper	mg/L (ppm)	0.97	0.95	2	0-20
Nickel	mg/L (ppm)	1.1	1.1	0	0-20
Zinc	mg/L (ppm)	0.11	0.11	0	0-20

Laboratory Code: 108120-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	0.83	94	96	80-120	2
Copper	mg/L (ppm)	5	0.97	95	98	80-120	3
Nickel	mg/L (ppm)	10	1.1	96	101	80-120	5
Zinc	mg/L (ppm)	5	0.11	98	102	80-120	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	97	97	80-120	0
Copper	mg/L (ppm)	5	98	98	80-120	0
Nickel	mg/L (ppm)	10	100	99	80-120	1
Zinc	mg/L (ppm)	5	99	98	80-120	1

108054

SAMPLE CHAIN OF CUSTODY

ME
ME

8/9/01

BI 1

Send Report To GERARD A. Thompson
 Company Alaskan Copper Works
 Address 628 S. Harbor St
 City, State, ZIP Seattle WA 98134
 Phone # 206-382-8339 Fax # 206-382-4309

SAMPLERS (signature)

PROJECT NAME/NO.

MESTRO S&P Monitor

PO #

m66539

REMARKS

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Ch, Cy, n, z				
m66539	01	8/9/01	12:30	H2O	1							✓				

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Gerard A. Thompson</u>	GERARD A. Thompson	Acw	8/9/01	2:25pm
Received by: <u>Charlene Morrow</u>	Charlene Morrow	F&BI	8-9-01	2:25pm
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 30, 2001

Gerald A. Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

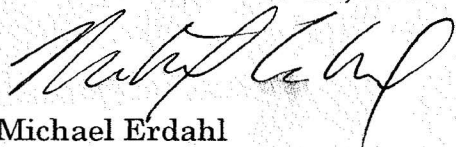
Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 9, 2001 from your Metro Self Monitor PO# M66599 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0830R.DOC

FRIEDMAN & BRUYA, INC.

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FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 30, 2001

DUPLICATE COPY

INVOICE #01ACU0830-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor PO# M66599 - Results of testing requested by
Gerald A. Thompson for material submitted on August 9, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
Amount Due	\$ 80.00

FEDERAL TAX ID #(b) (6)